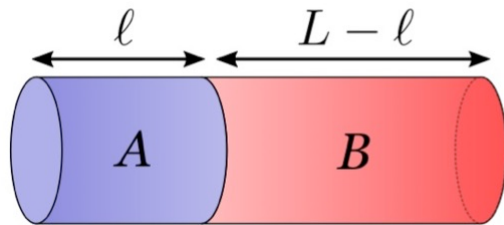# Universality in volume-law entanglement of scrambled pure quantum states

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$$S_2(l) = l \ln a(\beta) - \ln\left(1 + a(\beta)^{-(L-2l)}\right) + \ln K(\beta)$$

vol. law   deviation   offset

	non-integrable	interacting integrable	quadratic integrable
Stationary states after quench	◯	◯	✕
Energy eigenstates	△	✕	✕

S_2 of **scrambled** states obeys formula